



Saf-D-Grid[®] 300

Connector System for Higher Power AC Distribution



140% MORE POWER THAN IEC 60320 C13 / 14

- Rated for 300 Volts & 30 Amps

SAME SPACE AS IEC 60320 C13 / 14

- Identical Panel Cutout

HIGHER OPERATING TEMPERATURE THAN C13 / 14

- 80°C Cord Set & 140°C Receptacle

INTEGRAL PUSH BUTTON LATCH

- Secures Connection without Separate Accessories

APP
Anderson Power Products[®]

An **IDEAL** Company

Safe Connections for Higher Power AC Distribution Systems

| SPECIFICATIONS |

MECHANICAL	
Contact Retention	20 lbf 89 N
Plug Latch Retention	20 lbf 89 N
Panel Latch Retention	60 lbf 267 N
Durability	5,000 cycles - no load
Creep & Clearance per UL & IEC 60950 Between live parts of different polarity, earthing circuit and the mating surface.	7.0 mm
Mechanical Shock ^A IEC 60512-4-6C	50g's
Vibration, High Frequency ^A IEC 60512-4-6d	20g's

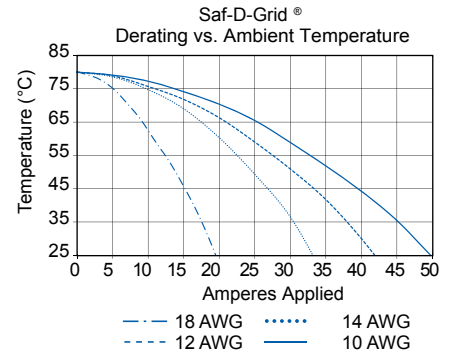
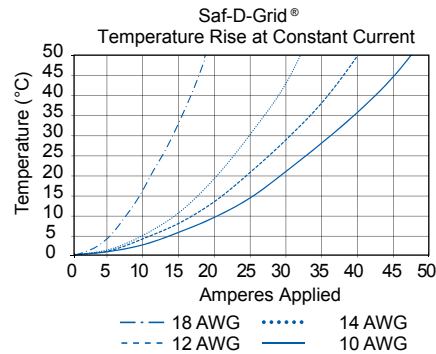
^ATested on similar contact systems in Saf-D-Grid® 400.

ELECTRICAL	
Voltage (AC/DC) • UL 1977 / CSA 22.2	600
Current Rating (Amperes)	30
Wire Range (AWG) (mm ²)	#10 to #18 6.0 to 0.75
Hot Plug Rated • 250 cycles • 250 cycles (UL)	400V @ 440A in-rush 300V @ 30A load
Dielectric Withstanding Voltage	3,300
Operating Temperature Plug	-20° to 80°C -4° to 176°F
Operating Temperature Receptacle	-20° to 140°C -4° to 284°F
Fault Current Withstand • UL 467	14 AWG, 300A, 4 Sec.
Shield Ground Impedance • UL 1977	Pass

MATERIALS	
Housing • Hi Temp Nylon + 30% GF, UL94 V-0, Halogen Free • Polycarbonate UL94 V-0	
Springs	Stainless Steel
Contacts	Copper, Silver Plate
Shield	Tin Plated Steel
Cable / Strain Relief	Thermoplastic UL94 V-2

Protection	
IEC 60529	IP20

| TEMPERATURE CHARTS |



| UL 1977 RATINGS |

Wire Size	Conditions of Use	Agency Rating	Rated Current Amp	Rated Voltage AC / DC
18 AWG	Disconnect Only	CNR UL 1977	12 18	600
	Current Interrupt	UL 1977	12	
16 AWG	Disconnect Only	CNR UL 1977	14 18	600
	Current Interrupt	UL 1977	14	
14 AWG	Disconnect Only	CNR UL 1977	20 35	600
	Current Interrupt	UL 1977	20	
12 AWG	Disconnect Only	CNR UL 1977	30 40	600
	Current Interrupt	UL 1977	30	
10 AWG	Disconnect Only	CNR UL 1977	30 40	600
	Current Interrupt	UL 1977	30	

| UL 817 RATINGS |

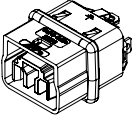
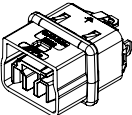
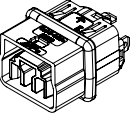
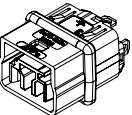
Wire Size	Cable Type	Amps (Current Interrupt 300V Max)
18 AWG	SJT	10
14 AWG		18
12 AWG		20
10 AWG		30

- "Disconnect Only" indicates the devices are not for interrupting current.
- "Current Interrupt" indicates the devices have been investigated for the interruption of current.
- APP assembly tooling is required for UL, CSA & other safety agency compliance. Use of unapproved tooling will void connector warranty.
- UL1977 ratings are for recognized components under UL1977 file# E26226. Ratings may vary once the final listing category is considered. Do not exceed maximum operating temperature of connector or wire insulation.
- CNR - indicates investigation to Canadian National Standards, C22.2 No. 182.3.
- UL 817 recognized or listed cord sets under UL file number E 343569.

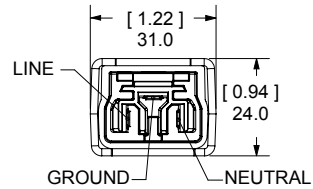


RECEPTACLES | - For solder termination to wire

Assembled Receptacle: Housings and Contacts

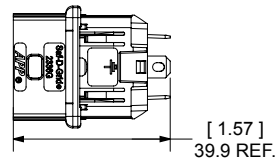
Shielding	Key*	Panel Thickness	Bulk Part Number	Std. Pack
Shielded	A	0.8 mm	2316G1S-BK	100
		1.0 mm	2316G3S-BK	100
		1.2 mm	2316G2S-BK	100
		1.6 mm	2316G4S-BK	100
		2.0 mm	2316G5S-BK	100
		2.5 mm	2316G6S-BK	100
	B	0.8 mm	2326G1S-BK	100
		1.0 mm	2326G3S-BK	100
		1.2 mm	2326G2S-BK	100
		1.6 mm	2326G4S-BK	100
		2.0 mm	2326G5S-BK	100
		2.5 mm	2326G6S-BK	100
	C	0.8 mm	2336G1S-BK	100
		1.0 mm	2336G3S-BK	100
		1.2 mm	2336G2S-BK	100
		1.6 mm	2336G4S-BK	100
		2.0 mm	2336G5S-BK	100
		2.5 mm	2336G6S-BK	100
Not Shielded	A	0.8 mm	2316G1-BK	100
		1.0 mm	2316G3-BK	100
		1.2 mm	2316G2-BK	100
		1.6 mm	2316G4-BK	100
		2.0 mm	2316G5-BK	100
		2.5 mm	2316G6-BK	100
	B	0.8 mm	2326G1-BK	100
		1.0 mm	2326G3-BK	100
		1.2 mm	2326G2-BK	100
		1.6 mm	2326G4-BK	100
		2.0 mm	2326G5-BK	100
		2.5 mm	2326G6-BK	100
	C	0.8 mm	2336G1-BK	100
		1.0 mm	2336G3-BK	100
		1.2 mm	2336G2-BK	100
		1.6 mm	2336G4-BK	100
		2.0 mm	2336G5-BK	100
		2.5 mm	2336G6-BK	100

Front View



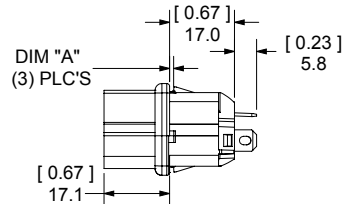
KEY "A" SHOWN

Top View

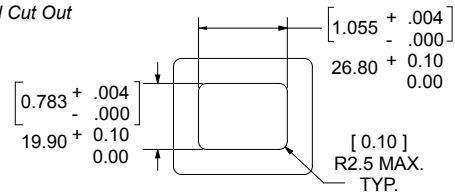


KEY "A" SHOWN

Side View



Panel Cut Out



* Keys Permit Mating Only with Like Keyed Power Cords

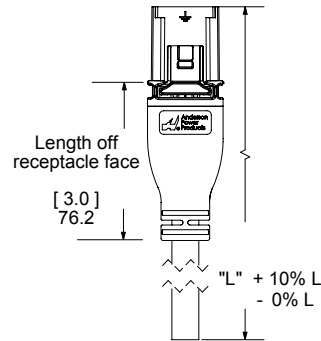
NOTE 1: Shading Indicates Build to Order

NOTE 2: 2316G Series Housings are Gray

| PLUG POWER CORD |

Single-Ended Straight Plug Power Cord

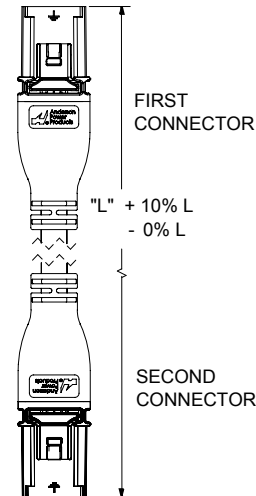
Key*	Length		Cable Type	Non-Bulk Part Number	Std. Pack
	M	FT			
A	1.0	3.28	18 AWG SJT UL 300V 90C	2354-1100-10	1
B	1.0	3.28	18 AWG SJT UL 300V 90C	2354-1200-10	1
A	1.0	3.28	14 AWG SJT UL 300V 90C	2352-1100-10	1
B	1.0	3.28	14 AWG SJT UL 300V 90C	2352-1200-10	1
A	1.0	3.28	12 AWG SJT UL 300V 90C	2351-1100-10	1
B	1.0	3.28	12 AWG SJT UL 300V 90C	2351-1200-10	1
C	1.0	3.28	10 AWG SJT UL 300V 90C	2350-1300-10	1
A	2.0	6.56	18 AWG SJT UL 300V 90C	2354-1100-20	1
B	2.0	6.56	18 AWG SJT UL 300V 90C	2354-1200-20	1
A	2.0	6.56	14 AWG SJT UL 300V 90C	2352-1100-20	1
B	2.0	6.56	14 AWG SJT UL 300V 90C	2352-1200-20	1
A	2.0	6.56	12 AWG SJT UL 300V 90C	2351-1100-20	1
B	2.0	6.56	12 AWG SJT UL 300V 90C	2351-1200-20	1
C	2.0	6.56	10 AWG SJT UL 300V 90C	2350-1300-20	1
A	3.0	9.84	18 AWG SJT UL 300V 90C	2354-1100-30	1
B	3.0	9.84	18 AWG SJT UL 300V 90C	2354-1200-30	1
A	3.0	9.84	14 AWG SJT UL 300V 90C	2352-1100-30	1
B	3.0	9.84	14 AWG SJT UL 300V 90C	2352-1200-30	1
A	3.0	9.84	12 AWG SJT UL 300V 90C	2351-1100-30	1
B	3.0	9.84	12 AWG SJT UL 300V 90C	2351-1200-30	1
C	3.0	9.84	10 AWG SJT UL 300V 90C	2350-1300-30	1
A	6.0	19.68	18 AWG SJT UL 300V 90C	2354-1100-60	1
B	6.0	19.68	18 AWG SJT UL 300V 90C	2354-1200-60	1
A	6.0	19.68	14 AWG SJT UL 300V 90C	2352-1100-60	1
B	6.0	19.68	14 AWG SJT UL 300V 90C	2352-1200-60	1
A	6.0	19.68	12 AWG SJT UL 300V 90C	2351-1100-60	1
B	6.0	19.68	12 AWG SJT UL 300V 90C	2351-1200-60	1
C	6.0	19.68	10 AWG SJT UL 300V 90C	2350-1300-60	1



Cord profile dimensions based on cable/overmold size.

Double-Ended Straight Plug Power Cord

Key*	Length		Cable Type	Non-Bulk Part Number	Std. Pack
	M	FT			
A/B	1.0	3.28	18 AWG SJT UL 300V 90C	2354-1112-10	1
A/B	1.0	3.28	14 AWG SJT UL 300V 90C	2352-1112-10	1
A/B	1.0	3.28	12 AWG SJT UL 300V 90C	2351-1112-10	1
A/B	2.0	6.56	18 AWG SJT UL 300V 90C	2354-1112-20	1
A/B	2.0	6.56	14 AWG SJT UL 300V 90C	2352-1112-20	1
A/B	2.0	6.56	12 AWG SJT UL 300V 90C	2351-1112-20	1
A/B	3.0	9.84	18 AWG SJT UL 300V 90C	2354-1112-30	1
A/B	3.0	9.84	14 AWG SJT UL 300V 90C	2352-1112-30	1
A/B	3.0	9.84	12 AWG SJT UL 300V 90C	2351-1112-30	1
A/B	6.0	19.68	18 AWG SJT UL 300V 90C	2354-1112-60	1
A/B	6.0	19.68	14 AWG SJT UL 300V 90C	2352-1112-60	1
A/B	6.0	19.68	12 AWG SJT UL 300V 90C	2351-1112-60	1



* Keys Permit Mating Only with Like Keyed Receptacles **NOTE:** Shading Indicates Build to Order

Custom Power Cords - Power Cords Are Available with Various Source Plugs



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DS-SDG300 REV 1

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